

Date: Sat, 25 Jun 94 04:30:18 PDT  
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>  
Errors-To: Ham-Homebrew-Errors@UCSD.Edu  
Reply-To: Ham-Homebrew@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Homebrew Digest V94 #173  
To: Ham-Homebrew

Ham-Homebrew Digest                      Sat, 25 Jun 94                      Volume 94 : Issue 173

Today's Topics:

                    JDR Microdevices (4 msgs)  
                    L.O FOR 1.2, 1.3, 1.4, 1.5 GHZ  
                    need info on Helical filter design  
                    Newcomer to Radio looking for advice

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>  
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 24 Jun 1994 17:49:13 GMT  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!usc!elroy.jpl.nasa.gov!lll-  
winken.llnl.gov!s07.es.llnl.gov!hunter@network.ucsd.edu  
Subject: JDR Microdevices  
To: ham-homebrew@ucsd.edu

The new JDR kits are the same price and have the same part numbers as the Ramsey  
kits.  
Interesting coincidence.

Steven Hunter

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Date: 24 Jun 1994 21:45:02 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!library.ucla.edu!europa.eng.gtefsd.com!  
uhog.mit.edu!news.kei.com!ssd.intel.com!chnews!scorpion.ch.intel.com!  
cmoore@network.ucsd.edu  
Subject: JDR Microdevices

To: ham-homebrew@ucsd.edu

In article <jra1854.1122876225A@news.tntech.edu>,  
Jeffrey Austen <jra1854@tntech.edu> wrote:

>For example, when QST reviewed the 2m (Ramsey)  
>xcvr they found that the transmitter did not meet FCC spurious emission  
>specifications. You get what you pay for....Jeff, k9ja

Hi Jeff, you forgot to say that two ten cent caps solve the problem and  
I'm sure those caps are included in the Ramsey FX kits by now.

73, KG7BK, 00TC, CecilMoore@delphi.com

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Date: Fri, 24 Jun 1994 14:47:37 GMT  
From: spsgate!mogate!newsgate!news@uunet.uu.net  
Subject: JDR Microdevices  
To: ham-homebrew@ucsd.edu

In article <1994Jun23.203328.13889@galileo.cc.rochester.edu>  
BILLY@urhep.pas.rochester.edu (Bill VanRemmen) writes:  
> Has anyone else noticed that JDR seems to have picked up lots of neat lines?  
I  
> was just flipping through their electronic components catalog and they've got  
> about 6 pages of kits, including a 2m xcvr for \$150. Case is extra (like I  
> want a naked board...)  
>  
> They've also got a pretty good selection of IC's including the MC1350 IF amp  
> and the NE602... visible laser diode... cases...  
> ...  
I've ordered parts from JDR a few times. They do seem to have some stuff that's  
hard to find elsewhere.

The kits are Ramseys.

For what it's worth...

73... Mark AA7TA

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Date: Fri, 24 Jun 94 20:09:45 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!spool.mu.edu!  
darwin.sura.net!atlas.tntech.edu!news!jra1854@network.ucsd.edu  
Subject: JDR Microdevices  
To: ham-homebrew@ucsd.edu

In Article <1994Jun23.203328.13889@galileo.cc.rochester.edu>,  
BILLY@urhep.pas.rochester.edu (Bill VanRemmen) wrote:

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>was just flipping through their electronic components catalog and they've got  
>about 6 pages of kits, including a 2m xcvr for \$150. Case is extra (like I  
>want a naked board...).

Those kits are from Ramsey Electronics. The performance of the completed  
kits is, ummm, less than optimal. For example, when QST reviewed the 2m  
xcvr they found that the transmitter did not meet FCC spurious emission  
specifications. You get what you pay for....

Jeff, k9ja

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Date: Fri, 24 Jun 1994 16:39:57 GMT

From: ihnp4.ucsd.edu!dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!  
usc!sdd.hp.com!col.hp.com!srngenprp!glenne@network.ucsd.edu

Subject: L.O FOR 1.2, 1.3, 1.4, 1.5 GHZ

To: ham-homebrew@ucsd.edu

Mike Lyon (mlyon@rahul.net) wrote:

: well i am trying to design a L.O for 1.2, 1.3, 1.4, 1.5 ghz. i don't

Mike,

You might be interested in the 1010 MHz coaxial/troughline oscillator  
I showed in my microwave station design series in Feb/Jun/Oct 1988  
Ham Radio Magazine. Although the series describes construction of the  
halfwave line version, I also refer to a quarterwave line version which  
is very similar. This allows mechanical tuning with a telescoping center  
conductor made from hobby store brass tubing and the ones I built would  
tune from .8 to 1.2 GHz or more. This oscillator provides low phasse noise  
along with wide (mechanical) tuning range. If you are looking for multiple  
precision oscillators, you might easily build several of these and lock  
each to a different line of a 50 MHz reference as the articles shows (using  
a 100 MHz phaslocked VCXO).

I used the phaselocked 1010 MHz oscillator to in turn lock up a 10100 MHz  
oscillator for 10,368 MHz SSB. The resulting performance and phase noise  
was quite acceptable and is also shown in the series.

Glenn Elmore n6gn

amateur IP: glenn@SantaRosa.ampr.org

Internet: glenne@sr.hp.com

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Date: 24 Jun 1994 17:21:10 GMT  
From: ihnp4.ucsd.edu!news.cerf.net!lsi.lsil.com!up55!achien@network.ucsd.edu  
Subject: need info on Helical filter design  
To: ham-homebrew@ucsd.edu

I am looking for information on how to design a "Helical filter" . Any books, papers or design equations available for this kind of filters? I know "TOKO coil" make this kind of filters but I need to custom design my own filter.

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Arthur Chien

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Date: 24 Jun 1994 15:03:47 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!  
europa.eng.gtefsd.com!news.ans.net!news.nynexst.com!nynexst.com!  
rhofmann@network.ucsd.edu  
Subject: Newcomer to Radio looking for advice  
To: ham-homebrew@ucsd.edu

Hi everyone. I'm a newcomer to the world of home-built transmitters/receivers and I have a few things I'd like to ask of the collective net-wisdom. My interest in this group stems from the desire, as sort of a summer project perhaps, to build some sort of a short range transmitter/receiver that I could perhaps use to link 2 computers together at school via a null modem type connection perhaps. I don't have very much experience with radio in particular, but I will be going into my senior year as a physics major and I have had at least an overview of electronic devices and circuits. What I'm wondering is:

- Is this a feasible project to undertake?
- If so, where might I find plans/designs to work off of in constructing such a device?
- What frequency bands if any would I legally be able to make use of?
- What frequency bands and how much power would I need in order to transmit reliably within a dormitory for example (cinder block walls, max distance of maybe 500 feet)

Any information that might help would be appreciated. Reply via postings or email.

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Bob Hofmann

rhofmann@darwin.cc.nd.edu     University of Notre Dame  
rhofmann@nynexst.com         NYNEX Science & Technology

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End of Ham-Homebrew Digest V94 #173

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